

STRAMZENTOV, Andrey Yevgen'yevich; SOSYANTS, Vasilii Georgiyevich;
FISHEL'SON, Mikhail Semenovich; YUDIN, V.A., red.; ZAMYSHLYAYEVA,
I.M., red. izd-va; LELTUKHIN, A.A., tekhn. red.

[City transportation and traffic engineering] Gorodskoi transport
i organizatsiia dvizheniia. Moskva, Izd-vo M-va kommun. khoz. RSFSR,
1960. 351 p. (MIRA 13:8)
(Traffic engineering) (Local transit)

STRASHEVTOV, A.Ye., prof., doktor tekhn.nauk

Problems in modern urban development. Gor.khoz.'bost. 34 no.3:
1-3 Mr '60. (MIRA 13:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(City planning) (Traffic engineering)

STRAMENTOV, A.Ye., prof., doktor tekhn. nauk; CHEREPANOV, V.A.,
dotsent, kand. tekhn. nauk

Organization of urban traffic. Gor. khoz. Mosk. 35 no.10:
40-44 0 '61. (MIUA 1617)

(City traffic—Congresses)

STRAMENTOV, A.Ye.

Some problems in the rebuilding of Moscow. Gor.khoz.Mosk. 35
no.4:10-12 Ap '61. (MIRA 14:5)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(Moscow—City planning)

STRAMENTOV, Andrey Yevgen'yevich, prof., doktor tekhn. nauk;
BUTYAGIN, Veniamin Aleksandrovich, dots., kand. tekhn. nauk;
FISHEL'SON, M.S., red.; BOLOTINA, A.V., red. izd-va; KHENOKH,
F.M., tekhn. red.

[Planning and improvement of cities] Planirovka i blago-
ustroistvo gorodov. Izd. 2., perer. i dop. Moskva, Izd-vo M-va
kommun.khoz.RSFSR, 1962. 507 p. (MIRA 16:3)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR (for Stramentov).

(City planning)

STRAMENTOV, A.Ye.

Problems of traffic movement in present-day city planning. Izv.
ASIA no.3:37-42 '62. (MIA 15:11)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(City traffic)

STRAZHENCOV, Andrey Yevgen'yevich, doktor tekhn. nauk, prof.;
FISHEL'SCH, Mikhail Samuilovich, kand. tekhn. nauk, dots.;
NADEZHIN, A.A., red.; GOLCYKINA, A.A., tekhn. red.

[City traffic; problems of speed and safety] Gorodskoe dvizhenie; voprosy skorosti i bezopasnosti. Moskva, Gosstroizdat, 1963. 293 p.
(City traffic) (Traffic engineering) (MIRA 16:12)

STEPAKIN, Anatoly Yuryevich [deceased]; KIRKOROV, V.
Afanasyevich; KAMANNIKOV, V.G., prof., laureate, 1941.
[deceased]

[City streets and roads] Gorodskie ulitsy i dorogi.
Pechora, Streizhal, 1955. 343 p. (MIRA 18:6)

SOV/137-58-10-20723

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p. 55 (USSR)

AUTHOR: Gebler, I.V., Stramkovskaya, K.K.

TITLE: Lignite Absorption of Heavy Metals from Dilute Solutions of Their Salts (O pogloshchenii buryim uglem tyazhelykh metallov iz razbavlennykh rastvorov ikh soley)

PERIODICAL: Izv. vost. fil. AN SSSR, 1957, Nr 12, pp 78-82

ABSTRACT: An investigation is made of the possibility of using lignite to absorb Cu, Ag, and Au from dilute aqueous solutions by cationization and sorption of their ions. It is found that Cu is well absorbed from solutions of CuSO_4 and the complex salt $[\text{Cu}(\text{NH}_3)_4]^{2+} \text{SO}_4^{2-}$, Ag from AgNO_3 solution and the complex salt $[\text{Ag}(\text{NH}_3)_2]^+ \text{Cl}^-$, and Au from AuCl_3 solution. Au and Ag are absorbed if they are cations. The metal may be removed from the coal by treatment thereof with weak solutions of the appropriate acids or by burning it. It is found possible to recover Au in this fashion from a number of mineral sources, and also to increase the recovery of Au in Pb concentrate by addition of coal to pulp in the flotation of polymetallic ores.

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L P

AUTHOR: Stramkovskaya, K. K. SOV/85-59-9-13/16

TITLE: Investigations on the Carbonisation of Humic Acids.
(Issledovaniye obuglerozhivaniya guminovykh kislot)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 9,
pp 57 - 59, (USSR)

ABSTRACT: Conditions of separation of water and CO_2 from humic acids were evaluated. The authors described the effect of various factors on the decarboxylation and dehydration processes of humic acids and their salts: temperatures ($170^\circ - 300^\circ\text{C}$), pressure (9 - 89 atms) and time of heating (from 5 - 150 hours). Dehydrated humic acids, humic acids in the form of an aqueous gel and soluble and insoluble salts of humic acids from Tarans turf of the Tomsk region were tested. Results of these experiments are given in the form of a graph and in a table. It can be seen that when dehydrated humic acids are maintained at a temperature of $170^\circ - 300^\circ$ in water vapour under pressure - or in the absence of pressure - dehydrogenation sets in. When the humic acids and their salts are heated at $170^\circ - 300^\circ\text{C}$ at pressures corresponding to these temperatures decarboxylation takes place. The separation of CO_2 and H_2O from humic acids

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SOV/AN-50-6-13/15

Investigations on the Carbonisation of Humic Acids.

during metamorphosis of the coal is obviously possible also without the aid of micro-organisms. The physical condition of humic acids and the water supply influence considerably the further course of the reaction. The dry humic acids are subjected to dehydration during metamorphosis. One of the most important factors during metamorphosis is the temperature which influences the carbonisation of humic acids. There is 1 Table, 1 Figure and 7 References: 3 Soviet and 1 German.

ASSOCIATION: Politeknicheskoy Inst im. S. M. Kirova (The Polytechnical Institute im. S. M. Kirov)

1. Humic acids--Carbonization
2. Humic acids--Dehydration
3. Humic acids--Temperature factors
4. Humic acids--Properties
5. Coal--Chemical properties

1.01 2/2

... ..

Tendency of humic acids to cake. Izv. Sib. otd. khim. nauch. ts. S.-M. Kirova, no. 1
1964, 1964. (Sib. 12110)

1. Tochnykh politekhnicheskikh institut im. S.-M. Kirova.
(Humic acids)

SHARAFUTDINOV, R.R.; BURDIN, V.R.; DINKOV, V.M.

Reactivity of peat coke and the effect of the additions of ore
and fluxes. Izv.TPI 11:15-100 '61. (MIL 14:6)

1. Predstavleno professorom doklaram I.V. Gublerom.
(Peat gasification) (Ores) (Fuel)

NT-AMKOVSKAYA, V.K., IVANOVA, V.D.

Effect of iron ore and furnace flux additions on the yield of products
of peat semicoking. Izv. TPI 126:12-14 '64. (MIRA 18:7)

SMOL'YANINOV, S.I.; STRAMOVSKAYA, K.K.; SMIRNOV, A.P.; OLITSKIY, I.F.;
KVASHNIN, S.A.

Removal of dust and tar from gases by electrostatic precipitation.
Izv. TPI 126:91-97 '64. (MIRA 18:7)

OVLASYUK, V.Ya., kand. tekhn. nauk; STRAMNOV, Yu.S., inzh.;
SUKHOFRUDSKIY, N.D., kand. tekhn. nauk

Use of the TE-62 system for the remote control of electric
locomotives. Trudy TSNII MPS no.276:47-63 '64.

(MIRA 17:8)

STRAMCH, M.I. ZILIPIN, V.V., inzhener, redaktor.

[Repair of machines in railroad construction] Remont mashin na
zheleznodorozhnom stroitel'stve. Moskva, Gos. transp. shel-dor.
izd-vo, 1953. 270 p. (MLRA 7:4)

(Railroads--Maintenance and repair)

STRAVOUS, M F

STRAVOUS, M.F., inshener.

New equipment for building the subgrade of railways. Mekh. trud.
rab. 7 no.11:40-42 D '53. (MLBA 6:12)
(Excavating machinery) (Railroads--Earthwork)

STRAMOUS, M.F.; KATTSEV, I.Ye., inzhener, redaktor; UDOD, V.Ya., redaktor;
SMOL'YAKOVA, M.V., tekhnicheskiiy redaktor.

[The building site equipment repair man] Slesar' po remontu
mashin na stroitel'noi ploshchadke. Moskva, Gos. izd-vo lit-ry
po stroitel'stvu i arkhitekture, 1954. 67 p. (MLRA 7:12)
(Building machinery--Maintenance and repair)

STRAMOUS, M.F., inzhener; KATTSER, I., inzhener, redaktor; UDOD, V.Ye.,
redaktor; TOKER, A.M., tekhnicheskij redaktor

[Progressive work practices on a grader-elevator] Peredovoi opyt
raboty na grejder-elevatore. Moskva, Gos. izd-vo lit-ry po stroit.
i arkhiterture, 1955. 23 p. (MIRA 8:7)
(Excavating machinery)

STRAMOUS, M.F.

Equipment for finishing work on earthen road beds. Avt.dor. 18
no.2:22-2) Mr-Ap '55. (MLRA 8:6)
(Road machinery)

STRANOUS, Mikhail Fedorovich; KATTSEN, I.Ye., inzhener, redaktor; MALYSHEV,
M.M., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskij redaktor

[Work practice of excavator operator N.P.Usachev] Opyt raboty
ekskovatorschika N.P.Usacheva. Moskva, Gos. izd-vo lit-ry po stroit.
i arkhitekture, 1956. 22 p. (MIRA 9:10)
(Excavating machinery)

~~STRANQUS~~, Mikhail Fedorovich; BARSUNOV, K.P., inzhener, redaktor; KANDYKIN,
A.Ye., tekhnicheskii redaktor

[Experience in operating ditch diggers] Opyt raboty na kiuvetokopatele.
Moskva, Gos. transp. shel-dor. izd-vo, 1956. 33 p. (MLRA 10:4)
(Earthmoving machinery)

STRAMOUS, M.F., inzhener.

Experience with operating an excavator. Mekh.stroi. 13 no.2:
24-26 F '56. (MLRA 9:5)

(Excavating machinery)

STRAMOUS, M.F., cond.tekhn.sank; KATTSEV, I.Ye., inzh., nauchnyy red.;
GUROV, Yu.S., red.izdatel'stva; STEPANOVA, E.S., tekhn.red.

[Practices of repairing excavating and transport machinery]
Opyt remonta zemleroiynykh i transportnykh mashin. Moskva,
Gos.izd-vo lit-ry po stroit.i arkhit., 1967. 135 p. (MIRA 11:1)
(Excavating machinery--Maintenance and repair)
(Mototrucks--Maintenance and repair)
(Tractors--Maintenance and repair)

SOV/118-12-2-8/11

32 (1,2)

AUTHOR:

Stramous, M.F., Candidate of Technical Sciences

TITLE:

New Machines for Transport Construction (Novyye mashiny dlya transportnogo stroitel'stva)

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959, Nr 3, pp 14-17 (USSR)

ABSTRACT:

For the construction of railroads, thousands of excavators are used. The earth, worked by them, amounts to hundreds of millions of m³. The TsNIIS has constructed a new type of excavator, leading to a considerable production increase. For the construction of dams, hydro-mechanization is widely applied. The earth-working machine 12 N2EA with automatic steering drive, increases production and decreases construction costs. For work on rocky ground, drilling machines BTS-1 mounted on tractor S-80 are employed. The manual work of small ditch construction and the grading of slopes will be replaced by excavator ETU-252, with special equipment for ditch digging. For final clearing away of earth, a

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New Machines for Transport Construction

50V/118-10-2-8/22

"profilor" is used. The worm-drive grader, mounted on the base of excavator BTU-258 is of great importance. For removing unnecessary earth, automatic unloading platforms with 4 containers were manufactured. The Uglick plant produces, for ballast work electroballast machines. For small-scale tasks, regulators combined with tractors and sloping elevators for lifting railroad ties are being constructed. New special machines for laying railroad ties are also being produced. There are 4 photographs and 1 graph.

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STRAMOUS, Mikhail Fedorovich; KATTSER, I.Ye., inzh., red.; SEROKEYEVA,
A.I., red.; BOBROVA, Ye.N., tekhn, red.

[Maintenance and repair of machinery in railroad construction]
Remont mashin na zheleznodorozhnom stroitel'stve. Iss.2. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniya,
1960. 323 p. (MIRA 14:1)

(Railroads--Maintenance and repair)
(Railroads--Equipment and supplies)

TERNOVSKIY, V.A., kand.tekhn.nauk; STRAZHUS, M.F., kand.tekhn.nauk

"Track machinery and mechanisms" by N.N.Gulenko, V.E.Gora.
Reviewed by V.A.Ternovskii, M.F.Strazhus. Put' i put.khoz. 6
no.3:46 Nr 162. (MIRA 15:3)
(Railroads--Equipment and supplies)
(Gulenko, N.N.) (Gora, V.E.)

PHASE I BOOK EXPLOITATION

SOV/6245

Stramous, M. F., Candidate of Technical Sciences

Vybor plasticheskikh mass dlya podshipnikov skol'zheniya stroitel'-nykh mashin (Selecting Plastic Materials for Slide Bearings of Building Machinery). Moscow, Mashgiz, 1962. 97 p. 3500 copies printed.

Reviewer: V. N. Lymzin, Candidate of Technical Sciences; Ed.: Ye. A. Velichkin, Engineer; Ed. of Publishing House: P. V. Otdel'nov; Tech. Ed.: N. F. Demkina; Managing Ed. for Literature on Heat Energy, Metallurgy, Highway Construction and Hoisting and Transporting Machinery Construction: N. M. Zyuzin.

PURPOSE: This book is intended for technical personnel engaged in the manufacture, repair, or operation of construction, road-building, and other types of machinery which work in abrasive media.

COVERAGE: The book contains the results of laboratory and operational investigations of the wearability of plastic sliding

Card 1/1 2

SENAM J.B., M.F., kand.tekhn.nauk

Machine for molding polyamide articles. Biol.tekh.-ekon.inform.

Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.9:25-27 '63.

(MIRA 16:10)

STRANOUS, M.F., kand. iurisk. nauk

Using bearings made of polypropylene in construction machinery.
Trans. stroit. 13 no. 12155-57 D'63 (MIRA 1717)

STANIS, M.F., kand.tekhn.nauk

Machine for abrasive-wear testing of sliding bearings. Biul.
tekhn.-ekon.inform.Gos.tauch.-issl.inst.tauch. i tekhn.inform.
16 no.10:52-54 '63. (MIRA 16:11)

ST. AMOUS, M.F., kand. tekhn. nauk

Economic effectiveness of using polycaprolactam bearings during
the repair of excavators. Stroi. i dor. mash. 9 no.5:20-22 My '64.
(MIRA 17:6)

STRAMOUS, M.F., kand. tekhn. nauk

Wear resistance of plastic bearings of construction and road
machinery. Stroil. i dor. mash. 8 no.3:27-31 Mr '63.
(MIRA 18:5)

STRAMOUS, M.F., kand. tekhn. nauk

Advantages of using plastic bearings in the repair of machinery.
Transp. stroi. 14 no.5:30 My '64. (MIRA 18:11)

A L 10214-66
 ACC NR: AP5028542
 SOURCE CODE: UR/0286/65/000/020/0152/0152

AUTHORS: Stramov, M. F.; Savotin, G. I.; Porokhnya, G. A.; Perelyayev, Yu. N.;
 Lysov, N. I. 23
 B

ORG: none

TITLE: A machine for building levees along alluvial plains and for forming land slopes.
 Class 84, No. 175897 [announced by Design and Construction Bureau of
 Glavstroyekhnizatsiya of the State Production Committee on the Transport Construction
 SSSR (Proyektno-konstruktorskoye byuro glavstroyekhnizatsii gosudarstvennogo
 proizvodstvennogo komiteta po transportnomu stroitel'stvu SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 152

TOPIC TAGS: excavating machinery, construction machinery

ABSTRACT: This Author Certificate presents a machine for building levees on alluvial
 plains and for forming land slopes. The machine contains a working member with
 numerous buckets for transverse excavations (see Fig. 1). This member is supported by
 a bearing-turning platform. To assure the possibility of levee building and slope
 forming, as well as trench excavating, the working member is placed on the turning
 platform eccentrically in respect to its axis of rotation. The rear part of the
 machine contains a transverse carrier and a demountable stopping baffle fixed to the
 frame of the working member. The body of each bucket may be open at the bottom, while

UDC: 621.879.443.6

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L 10-14-66
ACC NR: AP5028542

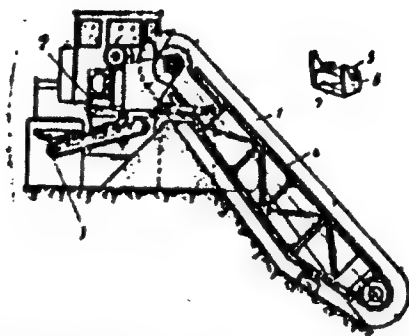


Fig. 1. 1 - Working member with numerous buckets, for transverse excavation; 2 - supporting-turning platform; 3 - carrier; 4 - frame of the working member; 5 - bucket; 6 - open body; 7 - blade.

a blade is fixed in its foremost part. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 02Mar64

Cord 2/2

L 24543-66 EWT(d)/EAP(1) IJP(c) BO
ACC NR: AP6006326

SOURCE CODE: UR/0413/66/000/002/0048/0048

AUTHORS: Ovlasyuk, V. Ya.; Sukhoprudskiy, N. D.; Straznov, Yu. S.; Trifonov, I. I.

ORG: none

TITLE: A frequency system of remote control. Class 21, No. 177954

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 48

TOPIC TAGS: remote control, frequency control, system reliability

ABSTRACT: This Author Certificate presents a frequency system of remote control for distributed objects. The system includes frequency selectors of the group, of the character of operation, and of the number of the object. The system also includes frequency shapers of the object of the remote signal system. The design increases the reliability of the operation. The group selector is connected to the input of the power supply bus bars of the character of operation selectors. The number of the object selector and the character of operation selector are connected to the input of the power supply bus bars of the output relays. The power supply bus bars of the receivers of the character of operation selectors are connected through a rectifier bridge to the output of the group receiver. The receivers of

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UDC: 621.398.654.94

L 24543-66

ACC NR: AP6006326

the number of object selectors contain two output transformers with rectifier bridges. One output of the primary winding of both transformers is connected to the collector of the output triode of the object number selector. The other output of the primary winding of both transformers is connected to the output of the rectifier bridges. The remote signal system pulse shapers are connected to the output of the time-shaping circuit.

SUB CODE: 09/ SUBM DATE: 26Dec63

Card 2/2.

nig S

STRATFER, H., inz , promovany ekonom, laureat statni ceny

Competition for the best factory branch. Tech praca 14. no. 4: 276-
279 Ap '62.

1. Prvni tajemnik Kommer der Technik.

ANDRZEJ LUSKI, J.; DOMZAL, T.; FUCHS, H.; LACINSKI, S.; NIEZGODA, T.; SWIETLIK, M.;
SILKA, S.; STRAJSKI, A.; ZELUDZIEWICZ, J.; TERAJEWICZ, A.

Amputations in hospitals of the Olsztyn Region during the decade of
1950-1959. Chir. narz. ruchu ortop. polska 26 no.6:797-799 '61.

1. Z Oddzialow Chirurgicznych Szpitali w Olsztynie oraz Szpitali
Powiatowych w Giszycu, Ketrzynie Nowym Miescie, Ostrodzie, Szczytnie.
(AMPUTATION statist)

STRANAK Antonin, Ing. . . Kladno, Czechoslovakia, Ing.

Effect of the tillage with rotary and subsoil plows on the dynamics
of soil physical properties and soil water conditions. Zemedel tech
19 no. 10: 723-730 1 1964.

1. Research Station of Basic Agrotechny and Fertilizing, Bohorelice
near Brno. Head of the Station. [Ing. 237.] Antonin Stranak. Submitted
1 September 7, 1964.

JANEK, J., 1964.

Effect of the change with rotary and subsoil plows on the release
of soil main nutrients. Zemedel tech 10 no.12:751-760 D 1964.

1. Research Station of Basic Agronomy and Fertilizing, Lohorelice
near Brn. Head of the Station: [Mr. -Dr.] Antonin Stranak. Submitted
on September 1, 1964.

CZECHOSLOVAKIA/Radio Physics - Radiation of Radio Waves.
Transmission Lines and Antennae

I

Abs Jour : Ref Zhur Fizika, No 12, 1959, 28103

Author : Stranek, Frantisek

Inst : -

Title : Damping Produced by a Round Coupling Slit in a Rectangular Wave Guide in a TE_{10} Mode

Orig Pub : Slabopromy obzor, 1958, 19, No 11, 746-749

Abstract : The author solves the problem of the passage of a H_{10} wave through a round hole in the walls of a rectangular wave guide, and also through holes in diaphragms placed in the transverse cross section of a wave guide and in T branches in the E and H planes. Diagrams are given for the determination of the attenuation produced by the holes. A procedure is described for measuring the coupling between the holes and experimental results are given, which are in sufficient agreement with the computed data.

Card 1/1

STANAY, Frantisek, Ing.

Use of ferrites in microwave techniques. Sdel tech 9 no.9:338-340
3 fol.

STRANAK, Frantisek, inz.

A note on the reflection coefficient of an n-staged transformer in
a radio-frequency transmission line. Slaboproudý obzor 22 no.4:
239-241 Ap '61. (EEAI 10:6)

1. Vyzkumny ustav spoju, Praha.
(Electric transformers) (Electric lines) (Radio)

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Z/039/61/022/006/003/005
D 225/D305

9.1912

AUTHOR: Straňák, František, Engineer

TITLE: Plane reflecting surfaces in beyond-horizon radio relay links

PERIODICAL: Slaboproudový obzor, v. 22, no. 6, 1961, 350-355

TEXT: The article deals with the problem of passive reflecting surfaces for beyond-horizon radio-relay links, a subject which was not yet systematically treated in Czechoslovak technical literature. The author derives in detail the expressions for important parameters of a beyond-horizon link as shown in Fig. 1, and lists a practical example of a reflecting surface, destined for an assumed beyond-horizon relay link as shown in Fig. 11. The transmission equation for free space, under the supposition of an incident plane wave, reads $N_p = N_v \frac{A_v A_{rp}}{\lambda^2 r^2}$, in which N_p is the power

available at the receiver; N_v is the power of the transmitting

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antenna; r is the distance between the receiving and transmitting antenna; A_p is the functional surface of the receiving antenna; A_v is the functional surface of the transmitting antenna; and λ is the wavelength. Applied to the available power N_p and the transmitted power N_v of a reflecting surface, the transmission equation reads:

$$N_p = N_v \frac{A_v A_{rp} A_{rv} A_p}{d_1^2 d_2^2 \lambda^4}, \text{ in which } A_{rp} \text{ is the functional receiving}$$

surface of the reflector; A_{rv} is the functional transmitting surface of the reflector; d_1 is the distance from the transmitter antenna to the reflector; d_2 is the distance from the reflector to the receiving antenna. The available power in a link with a reflector can be derived from Fig. 4. Since the angle of incidence equals

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the angle of reflection $\Lambda_{rp} = \Lambda_{rv} = \Lambda$, the equation reads:

$$N_p = N_v \frac{\Lambda_v \Lambda_p^2}{d^2 d^2 \lambda^4} \quad . \quad \text{Where more reflectors with projections } \Lambda_1, \Lambda_2 \dots \Lambda_n \text{ are used in one link, the equation reads:}$$

$\Lambda_2 \dots \Lambda_n$ are used in one link, the equation reads:

$$N_p = N_v \frac{\Lambda_v \Lambda_1^2 \Lambda_2^2 \dots \Lambda_n^2 \Lambda_p}{d_1^2 d_2^2 \dots d_1^2 \dots d_{n+1}^2 \lambda^{2n+2}} \quad , \quad \text{in which } d_1 \text{ is}$$

the distance from the transmitting antenna to the first reflector;
 d_{n+1} is the distance from the last reflector to the receiving antenna;
and d_1 is the distance between two neighbouring reflectors. The
additional attenuation of beyond-horizon links can be calculated
from the free-space attenuation of a direct link (α_0) and that

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of a reflector link (α) and is $\Delta\alpha = \alpha - \alpha_0$; $\Delta\alpha = 20 \log \frac{d_1 d_2 \lambda}{(d + d_1) \lambda}$

/dB/. This additional attenuation decreases with decreasing wave-
lengths and increasing reflector projection surfaces on the face
of the incident wave. Instead of the additional attenuation, some-
times the reflector efficiency is derived as the ratio of the power,
 N_{p2} , available at the receiver of a beyond-horizon link and the
power, N_{p1} , which would be available at the receiver in case of a
direct link and is $\eta = \frac{N_{p2}}{N_{p1}}$, which, after substitution, calculation

according to the cosine law, and neglecting the term $d_1/d_2 + 2 \cos$
2 θ (since d_1/d_2 is much larger than 1), receives its final form

$\eta = \frac{A^2}{d^2 \lambda^2} \left(\frac{d_2}{d_1} \right)^2$. The transmission equation was derived under the

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Plane reflecting surfaces in beyond-horizon radio relay links

assumption that a plane wave strikes the receiving antenna; the entire aperture of the receiving antenna is irradiated in phase. Conditions under which the transmission equation remains still valid, can be derived from Fig. 6, in which a_1 and a_2 are the maximum dimensions of transmitting and receiving antenna apertures; and d is the distance between the two parallel orientated apertures. It can be assumed that the aperture of the transmitting antenna consists of elementary radiators, two of which (1 and 2) are indicated in the figure. The maximum path difference between arbitrary spots on the aperture of the transmitting and the aperture of the receiving antenna is $\Delta = \sqrt{d^2 + \left(\frac{a_1}{2} + \frac{a_2}{2}\right)^2} - d$.

which, solved for d , reads:

$$d = \frac{(a_1 + a_2)^2}{8\Delta} - \frac{\Delta}{2}.$$

For values of d , which are greater than that of the last equation,

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the transmission equation remains valid. From the calculation for a rectangular antenna for which $d_{\alpha} \geq 16 \frac{\alpha^2}{\lambda}$ it results that under

optimum conditions only the 265th part of the transmitted power can be received, or that the level of received power is at least 24.08 dB under the transmission level. An important factor is the planeness of the reflector surface, which must have a perfection to a degree that the phase difference on the face of the reflected wave does not exceed 90° . All the above calculations assume that the centers of the transmitting antenna, the reflector, and the receiving antenna lie in the plane of incidence and that the planes of transmitting and receiving antennae apertures and the plane of the reflection surface are perpendicular to the plane of incidence. However, in the field, the transmitter, the reflector, and the receiver will be installed at different elevations and the reflecting surface must be properly orientated, either according to precise calculations, or data taken from a map. The radiation

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pattern of a rectangular reflecting surface can be derived from Fig.9, and is formulated in detail by B. Kvasil [Ref 1: Theoretické základy techniky centimetrových vln (Theoretical Basis for Centimeter-Wave Technique), Prague, SNTL, 1957, 255-278]. This article contains the derivation procedure and further determines the zero directions of the radiation diagram together with the width of the main lobe between the first zeros of the diagram in the incidence plane. The last part of the paper lists the practical example of a reflector for beyond-horizon transmission (Fig 11.). From the two possibilities of installing the reflector at 300 or 400 m, the higher elevation was chosen because of smaller additional attenuation, simpler geometrical design and smaller angle of incidence (smaller beam deflection). This sample link with arbitrarily chosen topographical features is designed for a wavelength of 5 cm and operates dependably with a total attenuation of 70dB. Both the transmitting and receiving antenna are parabolic and have 40 dB more gain than an isotropic radiator. The antenna gain can be

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Plane reflecting surfaces in beyond-horizon radio relay links formulated in which A_g is the geometrical surface

$G = \frac{4\pi}{\lambda^2} \eta A_g$, and η is the efficiency; $A_g \cdot \eta = A$ the effective surface. A parabolic antenna with horn-type primary radiator has an efficiency of $\eta = 0.55$, an effective surface of $A = 1.99 \text{ m}^2$, and a geometrical surface of $A_g = 3.62 \text{ m}^2$ (the diameter of the antenna aperture is 1.07 m). Other data of the sample link are: free-space attenuation between the transmitter and receiver = 54 dB; additional attenuation of the reflector = 16 dB; sides of rectangular reflector $a = 5.05 \text{ m}$, $b = 6.3 \text{ m}$; area of mirror projection $A = 25.4 \text{ m}^2$; beam width between half-power points in the plane of incidence is

$\delta(\frac{1}{2}) = 0.6^\circ$; angle of incidence $\beta = 37^\circ 47'$; the orientation of the reflector is rather critical, its azimuth $\Phi = 37^\circ 46'$, its elevation $\beta = 2^\circ 2' 24''$; the minimum permissible distance between the reflector and the receiver is $d = 3.4 \text{ km}$. In the given case,

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Plane reflecting surfaces in beyond-horizon radio relay links conditions for applying the free-space transmission equation are fulfilled. The inclination versus the horizontal plane is $\alpha = 21'30''$ for the axis of the transmitting antenna, and $\beta = 20'52''$ for the axis of the receiving antenna. The maximum planeness factor of the mirror is 4.9 mm. In conclusion, the author states that the practical design of such a reflector is rather complicated and requires great precision. The large surface of 31.8 m² must be precisely orientated, especially in view of the small beam-width of the main lobe, which is only 0.6°. The surface must also be secured against vibrations so that the maximum deflection of the reflector from the plane does not exceed 1/10 of the wavelength. Despite the large gains of the transmitter and receiving antenna, the reflector must be rather large which limits the use of passive reflectors to rather short beyond-horizon links. There are 11 figures, 1 Soviet-bloc and 8 non-Soviet-bloc references. The references to the English-language publications read as follows: H.T. Fris: Note on a Simple Transmission Formula. Proc. I.R.E. 34 61946, May, 254-256; H. Magnuski, T.P. Koch: Passive Repeater Bends

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D225/D305

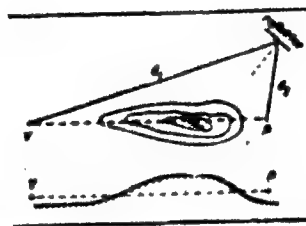
Plane reflecting surfaces in beyond-horizon radio relay links

Microwave Beam. Electronics, Feb. 1953, 134-137; W.C. Jakes: A Theoretical Study of an Antenna-Reflector Problem, Proc. I.R.E. 41, Feb. 1953, 272-274; R.G. Medhurst: Passive Microwave Mirrors. Electronic and Radio Engineer 36, 1959, Dec. no 12, 442-449.

ASSOCIATION: Výzkumný ústav spojů, Praha (Communications Research Institute, Prague).

SUBMITTED: April 20, 1960

Fig.1: Use of a reflector on a beyond-horizon link(V=transmitter, P=receiver).



Card 10/12

Periscopic antenna

2/039/61/022/011/006/006
0291/0304

approximated by a Gaussian function. The calculation based on the second assumption is less accurate, but much simpler (it eliminates double integration) and the gain can be expressed in closed form by functions listed in tables. The error is insignificant for practical use since it does not exceed the value of 1 dB. The author then calculates the simplified radiation pattern of a periscopic antenna, based on the amplitude and phase distribution on the reflector projection as resulting from the approximation of the main radiation lobe of the primary antenna. In conclusion, the author states that periscopic antennas are very essential for microwave radio-relay links and have even a gain vs. parabolic antennas when properly designed. However, reflectors mounted on relay towers impose also some difficulties such as reflection by the tower, tower rigidity, etc. There are 5 figures and 10 references: 6 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: W.C. Jakes: A Theoretical Study of an Antenna-Reflector Problem. Proc. IRE, 1953, no. 2, pp 272-274; R.G. Medhurst: Passive Microwave Mirrors. Electronics and Radio

Card 2/3

2/039/01/022/012/006/009
D291/3304

97300

AUTHOR: Straňák, František, Engineer

TITLE: Nomograms for the design of plane reflecting surface
for beyond-horizon radio-relay links

PERIODICAL: Slaboproudý obzor, v. 22, no. 12, 1961, 740-742

TEXT: By the use of nomograms the author presents the relations required for designing reflectors of beyond horizon relay links. Listed are nomograms for free space attenuation between two isotropic radiators, for additional attenuation of a single and of two reflectors, and for determining the critical distance between two apertures, in cases where the transfer equation for free space can still be considered valid. The short presentation is a supplement to an article previously written by this author, listed under Ref. 1: (F. Straňák: Rovinné odrazné plochy ve směrových spojích na trasách bez přímé viditelnosti (Plane Reflecting Surfaces in Beyond Horizon Radio-Relay Links), Slaboproudý obzor, v. 22, (1961), no. 6, pp. 350-355). There are 7 figures and 1 Soviet-bloc reference.
Card 1, 2

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B

Nomograms for the design ...

Z/039/61/022/012/006/009
D291/L304

ASSOCIATION: Výzkumný ústav spojů, Praha (Communications Research
Institute, Prague)

SUBMITTED: June 13, 1961

✓
B

Form 100

STRANAK, Frantisek, inz.

A passive relay of imperfect realization. Slaboproudý obzor
23 no.6:345-349 Je '62.

1. V/zkusný ustav spoju, Praha.

STHANAK, ins.

Reflecting surface as a part of antenna directional system.
Slaboproudy obzor 23 no.7:413-421 J1 '62.

Z/059/62/023/012/002/004
E192/E382

AUTHOR: Stranek, Frantisek, Engineer

TITLE: Microwave bandpass filters with quarter-wave couplings

PERIODICAL: Slaboprouty obzor, v. 23, no. 12, 1962, 680 - 685

ABSTRACT: The filter considered is illustrated in Fig. 1. The device consists of n cavities in a rectangular waveguide, each cavity being formed from a section of the guide having a length l_i and two similar susceptances at the ends of each section. The normalized susceptance is jB_i and the length l_i of the i -th cavity is chosen so that for a given jB_i the cavity resonates at the centre frequency f_0 of the filter. All the cavities are tuned to f_0 but their effective quality factors Q_i are different. The length l_i is approximately equal to half the wavelength in the waveguide λ_{g0} corresponding to f_0 . The length d_i of the coupling sections is approximately equal to $\lambda_{g0}/4$. The equivalent

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microwave bandpass filter

1/059/62/023/012/002/004
192/3562

circuit of such a filter is illustrated in Fig. 4, where the series and parallel resonant circuits are tuned to the centre frequency f_0 . The filter is terminated with a matched load and supplied from a generator with a matched output impedance. The problem of designing the filter (either for maximum flatness or Chebyshev response) consists of determining the effective quality factors Q_{ei} of the individual stages. The formulae for Q_{ei} are derived under the assumption that the susceptances at the terminals of each cavity are linear functions of frequency in the vicinity of f_0 . Q_{ei} are expressed as functions of the susceptance at the resonant frequency. The relationship between this susceptance and the resonance length l_i of the cavity is then derived and a formula for d_i is determined. The problem of realization of the susceptance is not considered. There are 9 figures.

Card 2/3

STRANAK, Iva.

Microwave circuits for combining and branching high-frequency channels in radio relay systems. Slaboproudy obsor 24 no.2: 109-111 F '63.

STRANAK, Frantisek, inz. CSc.

Future of microwave communications. Siatoprendy obzor
25 no. 2: 104-105 F '64.

...TUMSK, Prantisek, Inc. ESc.

Reflecting surfaces in microwave relay telecommunications.
Ca oyofo 9 no.4:7-11 Ag '64.

.. Research Institute of Telecommunications.

STRANAK, Frantisek, inz. CSo.

Microwave system engineering using large passive reflectors.
Slaboproudý obsor 25 no.10:613-616 0 '64.

L 1022-66 T/FCS(k) NR

ACCESSION NR: AP5025946

CZ/0039/65/026/005/0279/0285

AUTHOR: Stranek, Fr. (Engineer, Candidate of sciences)

TITLE: Periscope antenna with phase equalization

SOURCE: Slaboproudy obsor, v. 26, no. 5, 1965, 279-285

TOPIC TAGS: antenna, antenna engineering

ABSTRACT: [Author's Russian and English summaries, modified]:
The article points out the possibility of using a periscope antenna system with a reflecting plane, at the projection or aperture of which phase equalization is achieved by means of a lens. By equalizing the phase of the electromagnetic wave on the projection-aperture an effect is obtained similar to that produced by curving the reflecting surface into the form of a paraboloid generated by rotation, that is, increasing the gain of the entire system. The qualities of the periscope antenna system with phase equalization by means of a lens are analysed. Orig. art. has: 7 figures, 31 formulas, and 4 graphs.

Card 1/2

L 1022-66

ACCESSION NR: AP50259A6

2

ASSOCIATION: Vyskumny ustav spoja, Prague (Communications Research Institute) 41

SUBMITTED: 22Oct64

ENCL: 00

SUB CODE: EC

NR REF SOV: 001

OTHER: 008

JPRS

Card 2/2

STIGANAK, J.; CERNATA, J.

"National Competition of Czechoslovak Firemen", P. 582, (SVET MOTORU,
Vol. 8, No. 19, Sept. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,
Dec. 1954, Uncl.

STRANAK, Josef

Use of models from wax and air mixture for precise casting.
Slevarenství 10 no.5:185-186 My '62.

1. Zavody Rijnovo revoluce, Uhersky Brod.

BOZDECH, Z.; STRANAK, V.; VLACH, O.

Transposition of the ulnar nerve after traumatic neuritis.
Acta chir. orthop.traum. cech. 30 no.5:421-426 0'63.

1. Ortopedická klinika lékařské fakulty UJEP v Brně, před-
nosta prof. dr. M. Janáček.

STRANAY, V.; VLACH, O.

Contribution to the differential diagnosis of cervicobrachial syndrome.
Acta chir. orthop. traum. cech. 31 no.2:139-141 Ap '64.

1. Ortopedická klinika lékařské fakulty UJEP v Brně (prednosta
prof. dr. M. Janacek).

SLOVIN, Dimitrij; STRANAKOVA, Vera

Laboratory infection of man with a virus of Newcastle disease.
Cas.lek.cesk. 91 no.9:264-265 29 Feb 52.

1. Ustav pro lekářskou mikrobiologii a imunologii Karlovy uni-
versity v Praze. Přednáška prof. dr. F.Patočka.
(NEWCASTLE DISEASE, transmission,
laboratory infect. in man)

BURIAN, V., Dr; STRANAKOVA, V., Dr; VYSOKA, B., Dr (technicka spoluprace
N.Vedralove)

Epidemiology of diseases caused by E. coli O 111 and O 55. Cesk.
hyg. epidem. mikrob. 2 no.5:381-385 Oct. 53.

1. KHES Liberec (for Burian, Stranankova) 2. UEM-hyg. epid. fakulta
(for Vysoka)

(ESCHERICHIA COLI,
virulence tests)

BUDA, J., doc. inz. GSc.; BRABEC, J., MSc.

Machining with ceramic plates made in Czechoslovakia.
Strojirenstvi 14 no. 3: 186-194 Mr '64.

1. Department of Machining Technology, Faculty of
Mechanical Engineering, Higher School of Technology,
Kosice.

1. State Planning Committee "1 May", Moscow.

2. State Planning Committee "1 May", Moscow.

3. State Planning Committee "1 May", Moscow.

The problem of effective mechanization; a study of the building trade in Western Germany.

P. 31. (MECHANISATION.) (Praha, Czechoslovakia) Vol. 5, No. 1, Jan. 1954

SG: Monthly Index of East European Literature (MIEL) Vol. 7, No. 5, 1954

STRANECKY, Frantisek, dr.

"Tensile stressed constructions" by [inz., dr., arch.] Frei Otto,
[doc] Rudolf Trostel. Reviewed by Frantisek Stranecky. Poz
stavby ll no.3:167-168 '63.

... ..,,

... .. of a by plastic materials. Inz stavby 11 no.
... .. Ag '69.

ACC NR: AT6025107

SOURCE CODE: HU/2502/65/045/004/0313/0322

AUTHOR: Foldesi, Istvan; Stranor, Gyorgy

ORG: Institute of General and Inorganic Chemistry, L. Eotvos University, Budapest;
Research Institute for Electrical Industry, Budapest

TITLE: Organotin compounds, II. Preparation of organotin oxinates and testing of their fungicidal activity

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 45, no. 4, 1965, 313-322

TOPIC TAGS: organotin compound, fungicide

ABSTRACT: Some new triorgano-tin oxinates, diorgano-tin oxinates and monoorgano-tin oxinates have been prepared by two methods: (a) from sodium oxinate and the corresponding organotin halide, and (b) from 8-hydroxyquinoline and the corresponding organotin oxide. Systematic tests for the fungicidal activity of the product have been carried out in Czapek-Dox culture medium. Triorgano-tin oxinate and the organotin trioxinate are highly effective fungicides, while diorgano-tin dioxinates have hardly any activity. Orig. art. has: 6 tables. [Orig. art. in Eng]

JPRS: 33,906

SUB CODE: 07, 06 / SUBM DATE: 16Jul64 / ORIG REF: 001 / OTH REF: 026

LS

Card 1/1

KOLAM YU EV, I.R.; GONCHENKO, N.I. [Gonchenko, N.I.]; STRANNOVSKAYA, N.V.
[Strannovskaya, N.V.]; SHEINMAN, A.K.

Effect of quaternary salts of 4(n-dialkylaminophenyl)-pyridines
on dysentery bacteriophage. Mikrobiol. zhur. 27 no.2:51-60 '65.
(MIRA 18:5)

1. Donetskii meditsinskiy institut.

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... ..
... ..

STANIK, I.

no academic degree or affiliation indicated

Moscow, Farmaceutichesky Obozr., No 11-12, 1962, pp 507-508

"Experiences with Boiling Buns in the Preparation of Infusion Solutions"

SEKTRA, Ales: STRANIK, Jan

Glucochloraloses. II. Electrophotometric determination of alpha- and beta glucochloralose. Cesk. farm. 4 no.7:330-333 Sept 55.

1. Z Ustavu pro chemii farmaceutickou Masarykovy university v Brne.

(HYPNOTICS AND SEDATIVES, determination,
α- & β-glucochloralose, electrophoresis)
(ELECTROPHORESIS,
of α- & β-glucochloralose)

Country:

Area of Interest:

Affiliation:

Sources:

Data:

60 97.63

HOUSA, Vaclav, promovany geolog; SCHEIBER, Ervin, promovany geolog;
STRANIK, Zdenek, promovany geolog.

Tithonian stratigraphy of West Carpathians. Geol. sbor. 14
no.1:3-17 '63.

1. Geological Institute, Czechoslovak Academy of Sciences,
Praha 2, Spalena 49 (for Housa). 2. Department of Geology
of the Faculty of Natural Sciences, J.A.Comenius University,
Bratislava, Gottwaldovo namesti 2 (for Schreiber). 3. Central
Geological Institute, Prague 1, Hradbni 9 (for Stranik).

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0"

STRANJAKOVIC, Dragoslav

Disease of Ilija Garasanin. Srpski arh. celok. lek. 84 no.5:
683-690 May 56.

(BIOGRAPHIES,
Garasanin, Ilija (Ser))

STRANKMULLER, J
Czechoslovakia /Chemical Technology. Chemical Products I-14
and Their Application

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31779

Author : Strankmuller J.

Title : Work of the Committee on Phenolic Water in the
German Democratic Republic.

Orig Pub: Vodni hospodarstvi, 1955, 5, No 7-7a, priloha,
9-11

Abstract: The most convenient and economic method for the
purification of phenolic sewage water has been
found to be extraction with phenolsolvan. The
number of steps must be strictly limited. Adsorp-
tion with Wofatit involves large losses of methanol.
Systems have been proposed for the purification of

Card 1/2

ACC NR: AP6023122

SOURCE CODE: 02/0060/65/000/006/0299/0260

AUTHOR: Stranska, Eva (Graduate biologist)

ORG: Parasitological Department, Section of Hygiene and Epidemiology, Ceske Budejovice (Parazitologicke oddeleni hygienicko-epidemiologickeho oddilu)

TITLE: Some findings in parasitological problems in a special group

SOURCE: Vojenske zdravotnicke listy, no. 6, 1965, 259-260

TOPIC TAGS: parasitology, disease incidence

ABSTRACT: The author examined a group of 256 illiterates and a control group of 532 normal soldiers. 58.2% of the illiterates suffered from parasites (46% had *Trichuris trichuria*); among the control group 9.4% showed positive findings (5.8% *Lambliia intestinalis*). In 1963 the author investigated 122 military cooks; in 15 of them positive findings were made (11 *Entamoeba coli*). Orig. art. has: 3 tables.

[JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1

UDC: 616-002.9-058(379.2)1356.33

BILY, Jiri; STRANSKA, Tat'ana

Dermolox as technic of determination of higher nervous activity.
Cesk. psychiat. 53 no.5:348-352 Oct 57.

1. Psychiatricka klinika VIA v Hradci Kralove.
 (CENTRAL NERVOUS SYSTEM, physiol.
 determ. of funct. with dermolox (Cs))
 (SENSATION
 dermolox in determ. of funct. of CNS (Cs))

UTRATA, Roman; STRANSKA, Tat'ana

Movement dynamics & stereotypes in various psychic diseases. Cesk.
psychiat. 53 no.5:359-364 Oct 57.

1. Z Psychiatrickeho oddeleni UVN a psychiatricke kliniky VIA v
Hradci Kralove.

(MENTAL DISORDERS, physiol.
movement dynamics (Cs))

(MOVEMENT, in var. dis.
dynamics in ment. disord. (Cs))

STRAANSKA, T.; PELIKAN, V.

Rehabilitation in aphasia. Cesk. psychiat. 57 no.6:383-388 '61.

1. Psychiatricka klinika lekarske fakulty KU v Hradci Kralove.
(APHASIA rehabil.)